CLAIM AMENDMENTS

- 1. (Currently Amended) A differential drive type semiconductor optical modulator comprising:
- a differential driver circuit having a first and second output terminals which can output a pair of differential signals;
- a transmission-line substrate having a first transmission line connected to the first output terminal, a second transmission line connected to the second output terminal, and a ground line;
- a first semiconductor modulator connected between the first transmission line and the ground line, mounted on the transmission-line substrate; and
- a second semiconductor modulator connected between the second transmission line and the ground line, mounted on the transmission-line substrate; the first and second semiconductor modulators being arranged in series along a common optic optical axis; and

wherein a first terminal resistor connected between a terminal end of the first transmission line and the ground line, a second terminal resistor connected between a terminal end of the second transmission line and the ground line, a first inductance interposed between the first semiconductor modulator and the first terminal resistor, and a second inductance interposed between the second semiconductor modulator and the second terminal resistor are provided, located on the transmission-line substrate.

- 2. (Currently Amended) The differential drive type semiconductor optical modulator according to Claim 1, wherein the first semiconductor modulator is arranged in the on an optical incident side of the optical axis rather than the second semiconductor modulator, and the optical path length of the first semiconductor modulator is has an optical path length shorter than the optical path length of the second semiconductor modulator.
- 3. (Currently Amended) The differential drive type semiconductor optical modulator according to Claim 1 further comprisings an optical modulator integrated device in which including the first and second semiconductor modulators and an optical waveguide for optically connecting the first and second semiconductor modulators are integrated.
- 4. (Currently Amended) The differential drive type semiconductor optical modulator according to Claim 3, wherein each of driving electrodes of the first and second

• In re Appln. of HATTA et al. Application No. Unassigned

semiconductor modulators is arranged on the \underline{a} principal plane of the optical modulator integrated device.

- 5. (Currently Amended) The differential drive type semiconductor optical modulator according to Claim 4, wherein the optical modulator integrated device is mounted on the transmission-line substrate by flip-chip mounting.
- 6. (Currently Amended) The differential drive type semiconductor optical modulator according to Claim 1, wherein the first and second inductances are formed of slimmed narrowed portions in of the first and second transmission lines.
- 7. (Currently Amended) The differential drive type semiconductor optical modulator according to Claim 1, wherein the first and second semiconductor modulators are mounted onto the in close proximity of to the first and second inductances.
- 8. (Currently Amended) The differential drive type semiconductor optical modulator according to Claim 1, wherein including an electric delay portion due to the difference differences in path-length is provided lengths in at least one of the first and second transmission lines.
- 9. (Currently Amended) The differential drive type semiconductor optical modulator according to Claim 1, wherein including a phase inverter for inverting phase of a signal is provided in at least one of the first and second transmission lines.
- 10. (Currently Amended) The differential drive type semiconductor optical modulator according to Claim 1, wherein the differential signal from the differential driver circuit is an RZ signal.